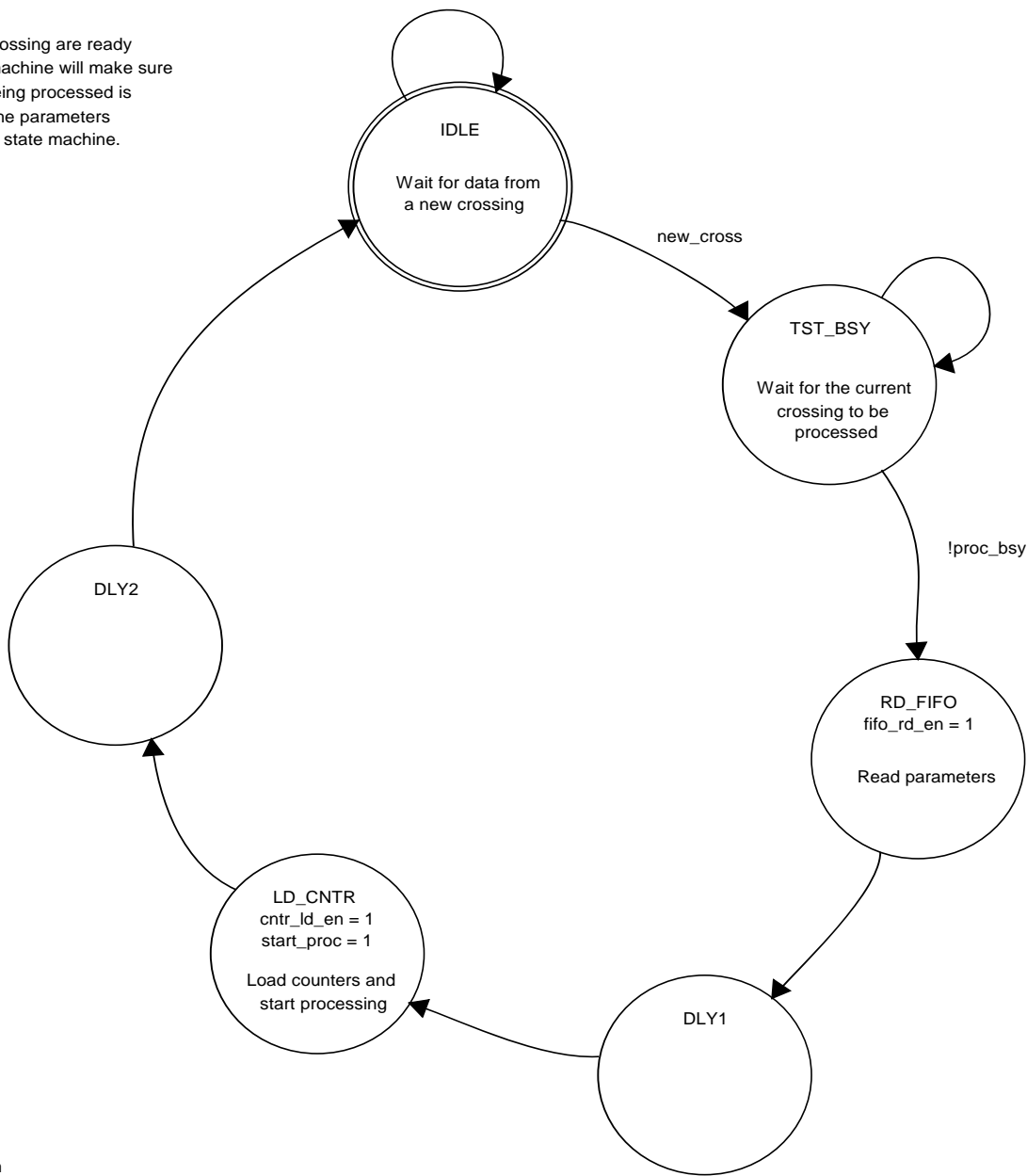


When tracklets for a given crossing are ready to be processed, this state machine will make sure that the crossing currently being processed is finished. It will then retrieve the parameters and kick-start the processing state machine.



STATE MACHINE

name	TP_start_new_cross_sm	
clock	clk	posedge
reset_signal	res	positive
reset_state	IDLE	anyvalue
implied_loopback	1	

INPUTS

new_cross		Tracklets from a new crossing are ready
proc_bsy		The current crossing is still being processed
clk		Pipeline clock
res		Reset

OUTPUTS

fifo_rd_en	0	comb	Read tracklet counts from the input FIFO
cntr_ld_en	0	comb	Load tracklet counters
start_proc	0	comb	Start processing this crossing

STATES

fifo_rd_en	0	output	Read tracklet counts from the input FIFO
cntr_ld_en	0	output	Load tracklet counters
start_proc	0	output	Start processing this crossing

TRANSITIONS

equation	1	def_type
----------	---	----------